ed Session.

NORTHEAST CAPE FEAR RIVER, N. C.

LETTER

FROM

HE SECRETARY OF WAR,

TRANSMITTING,

TH A LETTER FROM THE CHIEF OF ENGINEERS, REPORT ON RELIMINARY EXAMINATION OF NORTHEAST CAPE IVER, N. C., FOR A DISTANCE OF ABOUT 3 MILES ABOVE HIL-ON BRIDGE.

RUARY 27, 1914.—Referred to the Committee on Rivers and Harbors and ordered to be printed, with illustration.

> WAR DEPARTMENT, Washington, February 26, 1914.

SPEAKER OF THE HOUSE OF REPRESENTATIVES.

IR: I have the honor to transmit herewith a letter from the ing Chief of Engineers, United States Army, dated 25th instant, ether with copy of report from Maj. H. W. Stickle, Corps of Engirs, dated August 15, 1913, with map, on preliminary examination Northeast Cape Fear River, N. C., made by him in compliance n the provisions of the river and harbor act approved March 913.

Very respectfully,

LINDLEY M. GARRISON, Secretary of War.

WAR DEPARTMENT, OFFICE OF THE CHIEF OF ENGINEERS, Washington, February 25, 1914.

m: The Chief of Engineers, United States Army.

The Secretary of War.

ject: Preliminary examination of Northeast Cape Fear River, N.C. There is submitted herewith, for transmission to Congress, report ed August 15, 1913, with map, by Maj. H. W. Stickle, Corps of Engineers, on preliminary examination of Northeast Cape Fear Rive N. C., for a distance of about 3 miles above Hilton Bridge, called for

by the river and harbor act approved March 4, 1913.

2. Northeast Cape Fear River is about 130 miles in length ar empties into Cape Fear River at Wilmington, N. C. The preser project for its improvement, adopted in 1889, provides for clearing the natural channel for small steamers to Hallsville, and for po boats to Kornegays Bridge. The lower portion of the river is includ in the project for improvement of Cape Fear River at and below Wilmington, under which a depth of 26 feet at mean low water h been obtained from the mouth of the Northeast Branch to Hilt In the first mile above this bridge are located three fertilize plants and one sawmill. The vessels used in bringing in raw marials to the fertilizer plants usually draw 18 to 22 feet, and unc present conditions it is necessary to lighten them to a consideral degree before they can proceed to the factories. The improvement apparently desired is a channel 22 feet deep for the purpose of obating this difficulty. In the opinion of the district officer the local is worthy of improvement by the General Government, and he reco mends that the preparation of estimates be authorized. The divis: engineer concurs in this recommendation.

3. This report has been referred, as required by law, to the Box of Engineers for Rivers and Harbors, and attention is invited to board's report herewith, dated November 18, 1913. In connect with its study of the subject the board made a personal inspect of the locality and held a public hearing at Wilmington, N. C., October 17, 1913. The board invites attention to previous inve gations of this locality, the most recent of which was made in comance with the river and harbor act approved February 27, 1911, reports on which are printed in House Document No. 1356, Six second Congress, third session. In reviewing the report on surv the board expressed the opinion, in which the Chief of Engineers curred, that it is advisable for the United States to undertake construction of a channel 150 feet wide and 22 feet deep, as proper by the district officer, at an estimated cost of \$50,750 and an ann maintenance charge of \$3,000, provided local or other interests contribute one-half the estimated cost of first construction. board now reports that conditions, physical and commercial, practically the same as at the time of the former report, and it the fore renews, without modification, the recommendations previo made by it.

4. After due consideration of the above-mentioned reports, I con with the views of the Board of Engineers for Rivers and Harl and therefore report that the improvement by the United State Northeast Cape Fear River, N. C., for a distance of about 3 reabove Hilton Bridge is deemed advisable to the extent and under conditions heretofore recommended in the report printed in H Document No. 1356, Sixty-second Congress, third session.

EDW. BURR, Colonel, Corps of Engineers, Acting Chief of Enginee.

PORT OF THE BOARD OF ENGINEERS FOR RIVERS AND HARBORS.

[Third indorsement.]

Board of Engineers for Rivers and Harbors, November 18, 1913.

the Chief of Engineers, United States Army.

This is a report on preliminary examination of Northeast Cape r River, N. C., for a distance of about 3 miles above Hilton Bridge. theast Cape Fear River empties into the Cape Fear River proper at mington, N. C., and from its mouth to the bridge is under improvent in connection with the main river to a depth of 26 feet at mean water. Above the bridge there is a shoal for a distance of about 0 feet, with a natural depth of channel of about 12 feet. Private

k, however, has increased this depth to about 15 feet.

Within the limits of the reach under consideration are located the right bank three fertilizer factories at points about 3,000, 0, and 5,000 feet above the bridge. It is stated that the vessels dling the business of these companies usually draw 18 to 22 feet, ssitating under present conditions a considerable amount of terage. The total commerce of the river is given as 165,000 tons, hich amount 58,955 tons pertain to the fertilizer factories and to timber mill located on the left bank. In addition to this water-te commerce, about 37,000 tons of phosphate rock are reported to acceived by rail, and it is claimed this would have been carried by a rif there had been sufficient depth.

The district officer states that it is difficult to get light draft els to carry phosphate rock, and that those available, drawing to 20 feet, must be lightered at Wilmington to the extent of 700 tons. If a depth of 20 or 22 feet were available, lightered rock to be received direct at a saving of about 30 cents per ton, and would also enable these factories to save the cost of transporting to 45 per cent of other materials from Wilmington to the factories

ul or lighters.

The district officer believes the locality worthy of improvement he General Government and recommends that an estimate of be authorized. The division engineer concurs in recommending stimate, but favors a channel of more commodious dimensions, in width and depth, in order to make the improvement reason-

permanent.

The board, through a committee of its members, made an intion of this locality on October 17, 1913, and held a public hearing te city of Wilmington, which was attended by a number of perin interest. A copy of the proceedings, containing the statements and arguments advanced in behalf of the improvement, is here-

This improvement has been considered on two previous occannes. The act of March 3, 1909, provided for a preliminary examination of the river from its mouth for a distance of $2\frac{1}{2}$ miles, with a to securing a depth of 20 feet. A survey was made and an itate prepared for a channel 20 feet deep and 150 feet wide, the being placed at \$37,000. Local interests claimed they would be ited with a depth of 18 feet, which it was estimated would cost

There were at that time two fertilizer factories intereste and the board, after full consideration of the facts, stated:

There appears to be no reason to believe that the river above Hilton Bridge will utilized for general commercial purposes in the near future, and the board does r believe that the United States would be justified in extending the harbor facilit above Hilton Bridge for the almost exclusive benefit of two concerns, especially view of their unwillingness to cooperate in the work.

The report was therefore unfavorable.

7. Again, under date of January 13, 1913, under authority of t act of February 27, 1911, after a third factory had been put in oper tion, the board reported as follows:

From the information now available it appears that the three fertilizer industrial located about a mile above the head of the deep-water project at Wilmington h now a considerable tonnage that would be affected by a more commodious chan and that such a channel would result in a material saving in the handling of the heavier commodities. The improvement is very largely in the interest of these c cerns, and a direct benefit would accrue to them and an indirect benefit to the gen-

In view of the conditions existing here, it seems to the board that these interest should contribute at least toward the work of first construction if the improvem is undertaken by the United States. A letter from them to the district officer stater for reasons given, "we should not be called upon to share in the expense of this provement, but that the same should be done and maintained by the Government and further, "should you, after considering the above facts, still feel that we sho bear a portion of the expenses, that we should be glad to have you advise us v portion in your judgment we should pay in order to secure the desired and neces improvement."

After careful consideration the board reports that in its opinion the conditi present and prospective, justify the Federal Government in participating in improvement under proper conditions of cooperation, and that it is advisable for United States to undertake the construction of a channel 150 feet wide and 22 deep, as proposed by the district officer, at an estimated cost of \$50,750 and an nual maintenance charge of \$3,000, provided local or other interests will contri

one-half the estimated cost, \$25,375, of first construction.

8. The present investigation is practically identical with t referred to in the above quotation, and while there appears to I strong desire for improvement by the special interests concern supplemented by those of the Chamber of Commerce of Wilming the board found conditions, physical and commercial, practically same as at the time of the former report. It was argued that benefits to be derived from the improvement were of such a gen character and would be so farreaching that the immediate local should not be called upon to contribute toward the work, but that entire cost should be borne by the General Government. While so indirect benefit might and probably would be felt by the gent public, an examination of existing conditions indicates clearly to mind of the board that especial and particular benefits would acu to the fertilizer factories concerned. In view of the considerable to the United States involved in the maintenance of the channel for indefinite period of years, the board considers that the contribution of one-half the first cost by those directly benefited would no unreasonable or onerous. Moreover, it believes that as a matter self-interest they would embrace the opportunity of having the vi done on these conditions if the estimate of the advantages to derived from the work be correct.

9. In view of the foregoing, the board reports in concurrence its former recommendation that the United States undertake construction of a channel 150 feet wide and 22 feet deep, at an ted cost of \$50,750 and an annual maintenance charge of \$3,000, ovided local or other interests will contribute one-half the estimated

t cost.

10. In compliance with law, the board reports that there are no estions of terminal facilities, water power, or other related subjects ich could be coordinated with the suggested improvement in such nner as to render the work advisable in the interests of commerce 1 navigation.

For the board:

W. M. Black, Colonel, Corps of Engineers, Senior Member of the Board.

ELIMINARY EXAMINATION OF NORTHEAST CAPE FEAR RIVER, N. C.

United States Engineer Office, Wilmington, N. C., August 15, 1913.

m: The District Engineer Officer.

The Chief of Engineers, United States Army,

(Through the Division Engineer).

oject: Preliminary examination, Northeast Cape Fear River, N. C.

- This is a report on the preliminary examination of Northeast pe Fear River, N. C., for a distance of about 3 miles above Hilton dge, provision for which was made in the river and harbor act roved March 4, 1913. The duty of making this preliminary mination was assigned to this office by department letter of March 1913.
- Assistant Engineer Robert C. Merritt, of this office, who has a connected with the improvement of this river for many years, mits the following report, which seems to cover the situation and based on thorough knowledge thereof:

evious examinations of this river are published in the Annual Report of the Chief ngineers and House documents as follows:

te of nina-	Published in annual report.		Published in House document.			Portion of river.	Nature of report.
	Year.	Page.	No.	Congress.	Session.		
\$1	1885	1128	71	48	2	Whole river	Unfavorable, but re- commended re- moving obstruc- tions near mouth.
)	1890 1895	1181 1389	35 322 229	51 53 59	1 3 1	Lower 2½ miles Whole river	Favorable. Unfavorable. Continuation of project recommended; no additional im-
1		• • • • • • •	867	61	2	Lower 2½ miles	provement. Favorable, provided interested parties would pay twothirds of cost.
			1356	62	3	Whole river	Favorable for the lower portion, provided interested parties would pay half of cost.

the river has been under improvement since 1889, the project of that date being in force and including the clearing of the natural channel for small steamers to

Hallsville, 88 miles above Wilmington, and for pole boats to Kornegays Brid

During the past 10 years no work has been done above Chinquepin.

Northeast Cape Fear River rises in the extreme northern part of Duplin Coun flows in a general southerly direction through Pender and New Hanover Counti and empties into the main Cape Fear River at Wilmington. It has a total length about 130 miles (70 miles in a straight line). In its upper portion it is about 12 mi distant from the Atlantic Coast Line Railroad; during the lower 90 miles it is ne

From its mouth to some distance beyond the limits contemplated in this examition its general direction is north and south. Its width at its mouth is about 750 fe It narrows down to 600 feet at a point $1\frac{1}{4}$ miles above its mouth, where it is crossed the Hilton Railroad bridge, operated by the Atlantic Coast Line and Seaboard Line Railroad Companies. This bridge is provided with a draw span having a width of 600 feet. However, the draw span is not in the best natural depth. About the bridge it widens rapidly to 1,500 feet in a distance of half a mile. It then narroto a width of 600 feet within the next $1\frac{1}{2}$ miles, and remains about this width to miles above the bridge, the point to which the examination contemplated by the has been carried. This portion of the stream is tidal, there being a tidal range of ab $2\frac{1}{2}$ feet.

A portion of the city of Wilmington lies along this branch of the Cape Fear fits mouth to the bridge. This lower portion of the river has always been conside as a part of Cape Fear River at and below Wilmington and has been improved fithe appropriations made for that work. Under the project for that work a depth 26 feet at mean low water has been obtained from the mouth of the Northeast Branch of the Cape Fear figure 1.

to Hilton Bridge.

The deep-water channel extends only a short distance above Hilton Bridge. river is then obstructed by a shoal about 4,500 feet long, which separates deep we near the bridge from deep water farther upstream, where a deep pocket is four The highest point of the shoal is found in midstream opposite the mouth of Sm Creek. The channel ordinarily used passes to the westward of this point.

There are located on the western bank of this portion of the river three fertil plants, as follows: About 3,000 feet above the bridge, American Agricultural Chical Co.'s plant; 4,000 feet above, Virginia-Carolina Chemical Co.'s plant; and 5 feet above, Swift Fertilizer Works. On the eastern bank, about 600 feet above bridge, is located Camp Manufacturing Co.'s sawmill. Two of these fertilizer pland the sawmill have been in operation for several years, but the third fertil plant—that of the American Agricultural Chemical Co.—was completed and sta

operations during the latter part of 1911.

These fertilizer factories receive their raw material from abroad or from disports in the United States in seagoing vessels. The maximum draft that could carried to their factories when first established was about 12 feet. The Swift Co 1906 and 1912, and the American Agricultural Chemical Co., in 1912, did some dring in the channel between their plants, so that now about 15 feet can be carried these plants at mean low water, but only about 7 feet can be carried to the dwater pocket above. As the vessels used in the trade usually draw 18-to 22 feet is necessary that they be lightened to a considerable degree before they can proto the factories.

The commerce for this river for the calendar year ending December 31, 1912,

as follows (season of navigation, navigable the entire year):

Freight traffic.

Freight traffic.							
Articles.	Amount in customary units.	Amount in short tons.	Value.	A verage haul or distance freight was carried.	Rat ton		
UPSTREAM. Brick Coal tons Cottonseed meal sacks Fertilizer tons Fertilizer materials do General merchandise do Grain bushels Hay bales Lumber feet Machinery tons Total.	2,500 750 3,060 40,980 2,512 6,600 2,400 50,000	36 2,500 38 3,060 40,980 2,512 185 120 100 95	\$108 10,000 1,140 91,800 819,600 376,800 6,475 3,360 1,000 9,500 1,319,783	50 50 52 52 52 2 52 52 52 52 25 40			

¹ Cargo.

Freight traffic—Continued.

Articles.	Amount in customary units.	Amount in short tons.	Value.	Average haul or distance freight was carried.	Rate per ton-mile.
DOWNSTREAM.		**			
on bales onseed tons sties number crates ilizers tons stock: Cattle head Hogs do liber feet s number try head nuts bushels toes do n barrels gles number centine: Crude barrels	$1,194 \\ 271 \\ 119,000 \\ 930 \\ 1,100$ $60 \\ 300 \\ 24,000,000 \\ 750,000 \\ 3,960 \\ 6,500 \\ 650 \\ 3,600 \\ 5,925,000$ 200	298 271 7,438 23 1,100 15 15 48,000 188 8 91 20 576 2,963	74,500 5,420 52,066 9,200 33,000 1,500 3,000 480,000 1,128 1,600 7,280 140 17,280 23,704	52 52 50 52 2 52 52 51 50 52 52 52 52 52 540	. 053 . 035 (1) . 22 (2) . 035 (2) (2) (2) (2) . 18 . 042 . 035 . 02 (2)
Spirits casks ber feet d cords.	17,010,889 3,500	115,697	23, 220 204, 128 14, 000 952, 066	55 35 35	(3) (2)
	RECAPITU	LATION.		,	
th traffic: Jpstream Jownstream	-	49,626 115,697	\$1,319,783 952,066		
Total		165, 323	2, 271, 849		

¹ Rafted and flatted.

These statistics show a total commerce up and down stream of 323 tons, valued at \$2,271,849, of which the following originated terminated on the first 3 miles above Hilton Bridge, or in the porpovered by this examination: Fertilizer materials, 40,980 tons, and at \$819,600; fertilizer, 2,975 tons, valued at \$89,250; and 500 tons of timber and lumber, valued at \$60,000. Total, 58,955, valued at \$968,850.

n addition to the above, these factories received by rail during the t calendar year 37,306 tons of phosphate rock, valued at \$223,836, ch they claim would have come by vessel if they had had sufficient of water up to their works. During the same time they were compelled to take out of deep-draft vessels at Wilmington and by rail and lighters to their factories, 34,067 tons of fertilizer terials, valued at \$681,380.

As the depth of water in the river below Wilmington is increased, draft of vessels coming to Wilmington correspondingly increases; being the case especially with foreign vessels bringing fertilizer

fertilizer materials.

It is difficult to get light-draft vessels to carry phosphate rock; y vessels carrying about 1,800 tons, drawing about 20 feet, can be lained. Such vessels require lighterage at Wilmington of from 700 tons before they can reach the factories. This increases the ct and makes it cheaper to receive this rock by rail. A depth of 20 feet to these factories would enable them to place this rock at

² Flatted.

³ Rafted.

the factories by water at a saving of about 30 cents per ton, and als enable them to save the cost of transporting about 45 per cent of other materials from Wilmington to the factories by rail or lighter

If there were sufficient depth of water up to these fertilizer worl more of their interior factories would be supplied through these fa tories, but under present conditions they are compelled to dive cargoes from Wilmington to Charleston and Savannah, in order save the extra expense of lightering at Wilmington, and ship to int rior factories from these ports. During the present calendar year steamer having 3,200 tons of pyrites ore for Wilmington and 1,50 tons for Charleston was paid a bonus by the factories to go to Charle ton first so that the vessel would not be drawing so much water who she arrived at Wilmington.

The insufficient depth of water causes delays and hinders t prompt discharge of vessels, and much complaint has been made masters, agents, and owners of vessels on account of these delay All of these things have a tendency to give Wilmington a bad rep

tation with American and foreign vessel owners and agents.

6. A map of the stream from Hilton Bridge to a point 3 mi above is submitted herewith.

7. The fertilizer factories are equipped with suitable wharves a

modern unloading facilities.

On this part of the river there is little if any opportunity for t establishment of general transportation wharves, terminals, or trail fer facilities, and no probability that such will ever be needed. T harbor would here be purely an industrial one for the benefit of materials utilized in manufacturing interests immediately on banks, and they can be relied on to provide such terminals as the may need. No water power, reclamation, flood control, or drain; is involved with the improvement.

8. In my opinion the locality is worthy of improvement by General Government, and it is recommended that the preparation

estimates be authorized. No survey will be required.

H. W. STICKLE, Major, Corps of Engineers

[First indorsement.]

OFFICE DIVISION ENGINEER, SOUTHEAST DIVISION, August 16, 1918

To the CHIEF OF ENGINEERS.

1. The portion of the Northeast River under consideration shoaled because it has an abnormal width. The river comes do with a very good depth until it strikes this wide portion, then shoals up until it gets down near the bridge, where it again narr

and again becomes deep.

2. In my opinion, it is perfectly useless to dredge out a narrow chi nel in front of these wharves. It will fill in very rapidly, and the kind of a channel that will be reasonably permanent is one that sufficient to have a modifying effect upon the regimen of the rein this vicinity and to exert a decided influence upon the flow of Above the point marked (B) deep water follows the cond ore, as it should. When it comes down opposite (B) it ought to ike an easy crossing, striking the right-hand shore about the upper d of the Swift Fertilizer Co. buildings, then it should follow this ore downward to the bridge. If a channel not less than 300 feet in dth and 23 or 24 feet in depth is dug along these lines, I think that may be reasonably permanent. That is, its cost of maintenance Il be reduced to the minimum.

3. The work ought to be done with a hydraulic dredge and the terial deposited so as to shoal up this area, particularly along the wnstream side of the crossing and also to bank up the material ward the eastern shore, taking care not to close the mouths of the butary creeks. The work ought to be done for 10 or 11 cents a rd, and I would advise that an estimate be prepared with this ject in view.

Dan C. Kingman, Colonel, Corps of Engineers.

For report of the Board of Engineers for Rivers and Harbors, see

ARING HELD AT ROOMS OF CHAMBER OF COMMERCE, WILMINGTON, N. C., BY THE BOARD OF ENGINEERS FOR RIVERS AND HARBORS, OCTOBER 17, 1913, AT 2 P. M.

Present: Lieut. Col. William C. Langfitt, Corps of Engineers; Lieut. Col. Harry vlor, Corps of Engineers; and Lieut. Col. H. C. Newcomer, Corps of Engineers,

mbers of the Board of Engineers for Rivers and Harbors.

ol. Langfitt. The meeting will come to order. The river and harbor act of Febry 27, 1911, contained a provision for a preliminary examination, and possibly a vey, of the Northeast River, and as a result of that provision of law a preliminary mination was had, which was reported favorably for a survey. The survey was de, and the district officer reported in favor of the improvement in question. The ort was referred to the Board of Engineers for Rivers and Harbors, as required by . Since the board was not fully convinced that the United States should undere the work alone, and as a result of the conditions presented, it finally recomnded that the work be undertaken by the United States, and maintained by the lited States after completion, upon condition that local interests contribute one of the cost of the execution of the work. Under this report the local interests Te to contribute one half of the cost of the work and the United States to contribute other half of the cost, and in addition the maintenance of the work after compledevolved upon the Government. This report of the board was apparently not satistically as the river and harbor act of March 4, 1912, had the item again inserted, ept that the limits of the improvement were extended some distance upstream istance of about 3 miles above the bridge. A preliminary examination was rered by this act, and this has been made, and a report thereon submitted by Maj. kle, which is in favor of the improvement; and, as required by law, that report is before the Board of Engineers for Rivers and Harbors. The board has not as yet the its report, and in order to be fully apprised of all the circumstances of the case, whether or not it should modify its previous recommendation of a half-and-half operation, it has come down to Wilmington, by a committee of its members, to over the ground itself and to hear any further arguments that the local interests of the state o the desire to submit to it in confirmation of their view that the United States should or a larger part than one-half, if not all, of the expense of the work desired. There ears to be no question but what the work will be of great benefit to the plants along river there; the question at issue is largely one by whom should this work be e, and what proportion of the cost should be borne by local interests, and what by the United States; and it is mainly upon that question that information is fred. The board will now be glad to hear from anyone who has anything to say In the subject, and in this connection I will request that those speaking give their thes to the stenographer, so that a full record can be had.

Ir. J. A. TAYLOR. Gentlemen, I speak on behalf of the Wilmington Chamber of amerce, and I will say that this organization has on various occasions indorsed this rect. Mr. Chairman, with your permission, I will read from a paper which has been prepared, from which some insight may be gathered as to the extent and capitalization and importance of the industries already located on this portion of the river. (Reads:) "Memorandum. There are located on the Northeast River, with a distance of one mile and a half north of Hilton Bridge, the following industries American Agricultural Chemical Co., Virginia Carolina Chemical Co., Swift's Fe tilizer Co., Camp Lumber Co.

"These properties are capitalized at \$1,500,000; have an annual pay roll of \$355,00 turn out manufactured product annually of 150,000 tons; reship to interior factori

crude material to the amount of 20,000 tons.

"Present depth of water, 16 feet high tide; proposed depth of water, 22 feet low tid

cost of improvement, \$52,000.

"Present depth of water involves lightering annually 35,000 tons of material at cost of \$9,000. Phosphate rock from Florida moved by rail, 37,000 tons, at an exce cost over water transportation of \$10,000.

"Estimated increase of water-borne tonnage in raw material of 50,000 tons with

depth of 22 feet of water.

"General Government has improved Ashley River 4 miles for the accommodation of fertilizer factories without any contribution of expense from private interests. "Location of fertilizer factories north of Hilton Bridge made necessary by ci

(Exhibit A.) Now, Mr. Chairman, I understand that this hearing proceeds upon the idea that t work in question is justified, and the question is, Who should bear the expense—t Government of the United States itself, or a portion of the amount expended in t execution of this improvement should be contributed by local interests? I think the is no question as to the need of the improvement. The need of the improvement is such as to satisfy the Government that it should be made. Therefore I submit t matter simply hinges upon this point: Is it a project of such importance—great i portance, I will say—as to justify the Government undertaking its cost, or justify the Government to take the position of requiring a certain financial cooperation from its citizens in the vicinity? Now, what is the line that divides or separates a pub improvement from a private interest—a public interest from a private interest? submit this line is not finely drawn. Is it not a matter of fact that all public impro ments have their initial steps in furtherance of private interests? If you elimin the direct benefit accruing to special interests, will you have a Government appropriation to do public work? Is not all private work of benefit to the public; and on other hand is not positively all public work of benefit to private interests as well the general public? I maintain that the principal beneficiaries of all public we are the private interests; and I will say that if you eliminate all public work upon ground that private interests are participants in the benefits, or beneficiaries there der, there will be no public improvements. The principal beneficiaries of all pul improvements are undeniably the various private interests along or adjacent to improvement. I submit the whole theory of the improvements of our public wa ways are predicated upon this basis. The actual beneficiary receiving the bene of an improvement is of course the community at large, but this benefit is deri only through the full and comprehensive use or application of such benefit, or impre ment I should say, by private interests. The ability afforded by the improvemen charter vessels or ships of a larger size and a greater depth in order to bring c modities necessary for use in the plant of the private interest is simply utilized those interests and the benefit goes to the public—a benefit the public would and could not realize unless through the private interests. The territory reached this improvement is not merely localized, but is reflected in Norfolk, in Charles and as far as Savannah. Mr. Chairman, in the case before us the private inter up the river here can have no hope of having the municipality of Wilmington sl by a system of taxation in this improvement. They are entirely out of the city lin in fact, they would not be allowed to operate their plant within the city corpo limits—there is a law against it. Therefore the question of taxing the abut property or any other property in the city for aid in this matter is not to be conside. In the city I believe there is a standard by which certain abutting property is to bear its proportionate share, but on the water front I do not believe the abut property is taxed for water improvements. It is a fact that the city of Wilming is old enough to be much larger than it is at present, but only last year an atterwas made to assess abutting property for certain improvements, and I will say that improvements in question were of great and peculiar value to the abutting prope Now, the proposition north of here on this river I submit, gentlemen, represents r capitalization, more tonnage, more possibilities, even beyond our expectations, any improvement ever had on this Cape Fear River; and these facts, I submit, matters for your earnest consideration. By this improvement you will make post

increase of something like 50,000 tons a year. This means a saving of \$19,000 out 30 per cent of the cost. The ability to charter ships of a larger tonnage and draft of extreme importance in this case. You all well know that every day the size of ats is increasing, and I submit it as a proposition without fear of contradiction that e larger the size and consequently larger carrying capacity of the vessel, the greater e decrease in the unit cost of carrying goods. Twenty-two feet of water here would able raw material to be supplied cheaper, and the effects would be immediately t all through this section of the country, both in the interior portions, but in other ctions of the country as well. It would decrease the cost of supplies and products in portions of the country tributary to this section. It would certainly invite the eation of other plants and enterprises in this section, and in every way afford greater nefits to the entire section of this country than any proposition we have here. bw, when you have a proposition of this character, with such great benefits to be turally derived from it, with such an appropriation by Congress for its execution, th such a wide reach of territory to be benefited, and all can be accomplished th the expenditure by the Federal Government of a few thousand dollars—a concrable proportion of the cost coming back in the very first year by or through the ring of cost of lighterage and reduction in freight charges alone, I submit you have fore you a proposition worthy of the most serious consideration—a proposition whose io of return to the Government on the investment is exceptional—a proposition rich, in my opinion, in all its elements is one that is worthy of being undertaken tirely by the Government, and that there are no elements here which would justify e Government in changing its usual policy in carrying on works of public improvent. Gentlemen, I believe the Government should carry on this work, and that tre are no special conditions or circumstances which would justify the Government not undertaking the work. Now, these properties being located up there as they are, d because they can not come within the city limits—fertilizer factories not being lowed to be established or operated within the municipal corporate limits, the obtion being because of the injurious results from the fumes—they must remain up ere. You can not establish these plants to the south of the city, because of the evailing winds which would carry the fumes of the plant over or into the city, at therefore they can not locate there. They can not locate, under any condition, the city itself. So there is no alternative but for them to remain where they are w located. Therefore, gentlemen, of necessity they have located where they now must go where the best navigation is afforded. And when you consider what it ans to this port of Wilmington, and to the country dependent upon this industry, say that because these people have located where they are, they should not be conered as a private interest, but rather that the matter is one of the greatest public portance, and one that the Government should itself take charge of. You can't away from the proposition, I submit it is final and controlling. Now, on the er side of the river is a sawmill plant, and I will say that this plant, like the phosate factories, could not locate elsewhere. It is true that it was to their interest to ate there—I assume that is why they selected the site. They owned the site, lumber comes to them there, and another site would not have given them access their lumber without an expensive haul. You will find that these plants are located were their business calls for the location. I refer to the Camp mill which I believe y gentlemen had pointed out to you this morning. He has an excellent plant, and m advised that because of the lack of water transportation he has been forced to dert a large part of his output from water-borne commerce to rail, because he can command ships of a sufficient size to carry his goods, and therefore he is compelled tresort to the more expensive method of rail transportation. Now, these lumber pnts up there are absolutely dependent on good water transportation facilities. rue that there is a good depth up to Wilmington—I believe a depth of from 26 to 30 but that depth does not extend up to these plants. So, because of inability to cry vessels to these plants, they are cut off by their 16 feet of water, and might vell be removed a hundred miles as the distance they are. It absolutely cuts them from water competition. You can readily see the disadvantage under which by are placed. Gentlemen, I can state that is the case here, and I present these tters to you simply from a public viewpoint. Personally, I have not a dollar's intest in these businesses. It is simply my sense of obligation on the part of Wilmington, the interest which the Wilmington Chamber of Commerce—the representative iness body of this city—has in this matter. I say personally I have not a dollar's instruction in this business up there—I am in the wholesale grocery business—and what I ave to say is based upon my sense of obligation to this community and the interests rolved; and I hope that I have been able to remove the impression that this matter luld be judged as a private matter when it is a public matter. Gentlemen, if you he any questions you desire answered I shall be glad to answer them if I can do so.

Colonel Langfitt. I think there is one point which might be cleared up—the say mill plant to which you refer has, I believe, 22 feet of water now at its wharf; and the reason they can not get vessels to come to their wharf I think should be explained little fuller by some one. That is a point, however, which can come up later.

shall be glad to hear from any gentleman present.

Mr. R. L. PAYNE. I will say that I am a representative of one of the compani interested in this improvement, we having a large plant up the river. Some tin back we made the petition to your board—the petition of 1912, I believe, which v feel laid before you gentlemen practically all the facts that we had. We felt at th time that you would appreciate the amount of money that we had invested to co struct our plant, and the exact location and conditions. I am glad that you have been up there and can see for yourselves what has been done. Now, from our loc tion up there we are considered a seaboard factory; but we have not the benefits the seaboard. We are brought into direct competition with Charleston, Savanna Last year we were unable to meet the competition of Charleston, I 25 cents a ton cheaper, and they took a large amount of business. We could n ship the finished product because Charleston underbid us 25 cents a ton. show how close our business is done. The gentleman who has just spoken here me tioned the lumber interests across the river. Now, those people there, as you gent men well know, have 22 feet of water, but from what I can learn from them th have not the vessels coming here to load. There are very little outside produ coming here by sail or chartered vessel. We say that if we could have water enou to bring rock-carrying vessels into the port of Wilmington, and to our factory, the we would bring close to 37,000 tons a year here by water in cargo lots of from 1,0 to 1,800 tons. That would give the port of Wilmington that many vessels a year seeking outbound cargoes, in our case alone. At other ports along the coast the vessels bring in their cargo of rock, and take out other cargoes. At Savannah, instance, they bring in their cargo of rock, and then take lumber to Norfolk, or r to Tampa, or to other ports along the coast with coal. Therefore you are able to much cheaper rates for lumber, or anything else, than when you have to send to N York or Baltimore and ask a single vessel to come down. I think that will explain Mr. Camp's situation to you. If the outgoing lumber had the advantages of shipp: by these vessels, the competition would reduce the freight rates to what they w here many years ago. Our people located their plant here, believing that Wilming was going to grow, and because we found it necessary that we should have a fact site in North Carolina, and I say we felt confident that we would have water to br our vessels in—that Wilmington would not allow her deep water line to remain the bridge where it has been for 25 years now. We freely expended money up the putting the plant in. We have expended in the neighborhood of a million an half or two millions of dollars, and we think that you gentlemen should now give the proper depth of water. If you gentlemen give us this water, we will bring our fertilizer material for this plant here—particularly the foreign material. branch establishments which would be supplied through this factory—one at S1 tanburg and one at Columbia, and we could take the material for them through unloading plant, which you saw this morning—transferring into cars without call upon the railroad and paying them excessive operating charges; and as Mr. Ta very well said, we feel that we are not a private interest, or I will add, a land-deve ment scheme. We are expending a large amount of money each year in this im diate section. I will say, gentlemen, that I am not going to make an extended addr but I have a paper here which I desire to file, which I think sets forth fully our vi

Paper received and filed. Marked "Exhibit B."

Col. Langfitt. Why was the plant placed in its present position instead of better railroad facilities—below instead of above?

there?

Mr. PAYNE. I believe the Virginia Chemical was the first plant located up tl which had railroad facilities. I don't believe land could have been found unoccuj up there. I will state that we have been compelled to expend some one hundred fifty thousand or two hundred thousand dollars that we never counted on-in mal fills and other improvements.

Col. Langfitt. How about the land below—any better or worse?

Mr. PAYNE. The land there is all low. Below it is mostly quite low—rice fie and no railroad facilities. All the land there is low, and at times overflowed—use one time for rice fields.

Col. Langfitt. Your railroad connection, I believe, is by a spur track?
Mr. Payne. Yes, sir; there is a spur track running to the Virginia Chemical. Col. Langfitt. Then, really, on account of the existing facilities you located Ir. PAYNE. That was one of the reasons; another reason was that the acid used in our nt might escape into the river and do considerable damage, and we did not want ay ourselves liable. Up there, there was less liability of our acid getting into the

ter and doing damage.

ol. Newcomer. Assuming your company should contribute one-half the cost, say, ,000, and the Government assume the other half, and thereafter the maintenance, ch may be assumed to be about 10 per cent, I understand you would save \$19,000

such an investment—pretty good business proposition, isn't it?

Ir. PAYNE. Well, yes; from a business standpoint that is a good proposition; but he same time you must bear in mind that we have to pay the same taxes we are paying. We have to pay the Government tax, and the State tax, and the county We are also paying the city of Wilmington the same taxes that any enterprise on water has to pay. I submit this should be taken into consideration. But if we the same depth of water as they have here in Wilmington-26 feet, I believe it so we could bring our boats in and take them out, it would place us then on the e footing as Wilmington, and in that case that depth of water was made for them the Government. Our claim is, gentlemen, we are just as much of a public entere as the rest of the community-

ol. Newcomer. In a sense, yes; no doubt that is true in a sense; but you have thing up there very closely localized—the other project is here to Wilmington, if you could get the benefits of it, it is probably true that it would be of benefit he public. But it looks to me like a good business proposition to save \$19,000 a r, and have the benefits which you state would accrue to the people, as well as the

l you own up there-

Ir. PAYNE. Colonel, right there I wish to say that the interests up there had to buy e tracts of land—entire farms. In fact, we have more land up there than we want. it was necessary to purchase the large tracts in order to get the water frontage red. Now, if we should be called upon to pay one-half of the cost of this project 2 feet, we maintain that the owners of other property, which I may say is as yet eveloped, would receive the greatest value in the increase. I think much more ld go to them than to the industries up there. Their property would be increased alue very much. The benefit to us would be in our being able to get in and out n larger boats, and consequently larger cargoes, and at a cheaper cost. Our argut is for the Government to make this improvement, which would result in more merce and perhaps make the land available for use; but at the same time let us, same as the rest of the public, derive the benefit.

bl. Newcomer. Mr. Payne, the estimated tonnage given here to-day is the entire

put of your plant—interior and outside?
r. PAYNE. The entire output, as I understand it.

bl. Newcomer. I understand the figures as to this saving of \$19,000 are based upon factors: Lighterage, \$9,000; and the other saving—\$10,000—upon bringing your

ducts from Florida points by boats instead of by rail?

r. Taylor. It would appear that from this saving there would be a resultant rit, but in this day of commercial activity and keen competition you will find that Gerence of 5 cents a ton on their raw material—every bit of this saving would be of untage, of great advantage I will assert, in the matter of competition, and would ptually result in benefit to the public, giving them the benefit of this difference. bl. Langfitt. It is possible that is true in a competitive zone, but it is not true in

or own zone, where competition is practically absent.

r. TAYLOR. You must understand that the fertilizer business or industry here is ciliarly situated. The Wilmington factories here do a large business over in egia, as well as in the interior sections of the State of North Carolina. They make eshipments of the raw material to their plants in the interior. The competition ry keen, and this saving of 5 cents a ton would absolutely tend to reduce the cost re ultimate consumer, who is located in the interior. These people, for instance, a; to meet the competitive price of plants on the Ashley River, which the Governthas improved without this contributory plan. Therefore these people here are ked in sharp and active competition with Savannah, and Charleston as well. It mply a matter of price as between Wilmington and Charleston and Savannah. vs very much interested in a letter written some time ago by Col. Wright in regard le effect upon wheat—how the transportation charges are reflected to a long dis-The even to trans-Atlantic ports. The cost of transportation to the seaboard was reduced, and the effects were felt all over the country. Now, right here eave one of the largest cotton shippers in the country, if not in the world. The nts get their cotton from the interior, bring it here by rail or by boat-whichever leiod best suits their purpose—then compress it, and his shipments are made mostly reign ports in chartered vessels. By chartering these vessels at a low rate, or unit st, the benefit is reflected wherever he purchases the cotton. So the producer

in Georgia or Alabama or the Carolinas is the ultimate beneficiary of the lower rate. The same theory will apply to the fertilizer factories up the river here. When yo bring the material to their doors, you supply what they need in their business, an when this can be done at a saving, and where there is already sharp competition, yo will find that the cost to the ultimate consumer is reduced. In other words, the benefits go to the entire public and not to the manufacturer; the final consumer would reap the benefit.

Col. Newcomer. I think, Mr. Taylor, it is entirely proper to assume that a portion

of this reduction would go to the consumer—

Mr. TAYLOR. I am satisfied it would all go to the consumer—

Col. Newcomer. I hardly think it proper to make that assumption. You have

zone here where there is no competition———

Mr. Taylor. But then you have the antitrust law, which prohibits all forms agreement between manufacturers to control their prices. In fact, if an agreement were made, you could not enforce it against them, and for myself I believe that agreements of this character have ceased to exist. I think the only industry to-day this country which, under the law, is not competing is the railroad industry. The can not compete under the law, but if you laid aside the law for 24 hours you wou see a different result. Their rates are now fixed, and they would get in trouble with the Government if they failed to comply. In addition, if they made an agreement as to rates the probability is they would not keep it. But these industries up he are on a different basis. There is no zone from which competition is absent in the business—no zone in which immunity from competition is found.

Col. Newcomer. Assuming, for a moment, that to be true—that all the savingoes to the consumer—would it not be entirely reasonable to say that the consum would receive only a part of the benefit, and that a part of this saving would go

the manufacturer—not all to the consumer?

Mr. TAYLOR. No; I think all would go to the consumer; that the consumer wor be the ultimate beneficiary of this saving. The individual amount going to ea consumer would undoubtedly be small and would constitute but a small fraction the cost to him, but there is where the benefit would finally be placed. Now, go tlemen, I will state that if it were not for our private interests there would never a public improvement. The initiation of every public improvement springs in every instance from private interests. The Government does not commence or underta any improvement unless there is a necessity therefor, and I submit that while the necessity may be predicated upon the demands of a private interest, yet the inval ble result is that the entire people derive the benefit. The improvement is ma and maintained for the benefit of the general public, and while a private interlike any individual, may participate in the benefits which the Government had mind, yet I submit that this case shows it is a public interest which would be serve and not a private interest. It is a work for the public good, and I submit that i a reasonable and proper assumption that the public interests are the ones the G ernment has in view when it undertakes the prosecution of a work of this characte not the individual interest, although individual interests may be benefited by work and probably would be. Such being my understanding of the matter, I to see how it would be just or proper for the Government to insist upon private in ests contributing to an improvement the purpose and object of which is for the ben of the general public of which such private interests form merely a portion or sn part.

Col. Langfitt. I shall be glad to hear from anyone else who desires to speak

there is any such.

Mr. E. D. Williams. I have a record here which covers a number of years. The a record of vessels showing the size and tonnage, and the increase in the size of carrying corrections of about 1,000; at this time it runs from 17,000 to 18,000. At the present time, I say that one ship now in carrying cotton will take out what it then took 10 sais vessels to carry. Our increase in commerce has been very great; has increased where the depth of water. Now, gentlemen, at the time I began navigating the Cape I River—the spring or summer of 1866—there has been a great increase both in defined in the size of vessels coming here. I will say I have taken particular notice of that time up to the present. I have watched the progress which has been must be the depth of water we have now—some 13½ or 14 from Wilmington to the sea on the spring tides. Now it is about double the depth had then—increased right along—24, 25, and 26 feet down to the sea. Gentler you probably know that the Northeast Branch of the Cape Fear River is the suitable branch we have for affording facility to establish factories of different k on account of the bluffs along the river. Above Swift's factory you will find a bluff—Tidburys, I believe—the next is Rock Side or Point, and there are others,

n here we have not the facilities. I am speaking from my observation. only rice fields, or flat lands, extending back some considerable distance from banks—come right up to the banks of the river. On this Northeast Branch of the Fear River we have several sawmills—two of them large and two small. At one they got their material up the river-floated it down and then cut it up; and d ship it from there. Now, they could ship to far greater advantage if they had a h of water so vessels carrying a large cargo could come up to them. This imement would be of great advantage to the sawmill industry. The small class of els that can carry their lumber cost more than the large-size vessels, and so it is profitable for them to ship that way. Now if they want to ship from the deep r down here, the lumber must be brought down here, which is expensive to them. e is no profit in shipping by the small vessels—you have to ship a good-sized cargo, 000 to 500,000 feet to make a profit. The large vessels draw at least from 20 to 25 and they save time and expense, and this I will say is not always the case. I am that if we had this improvement the vessels would make five trips here then where make one now. The present trouble is we haven't the deep water for them, and efore the vessels can't load or unload.

1. Newcomer. About what is the draft now of the lumber-carrying coastwise

ls coming to this port?

. WILLIAMS. I should say about 18 or 20 feet—something like that. I. Newcomer. To what points are these cargoes of lumber shipped?

. Williams. To the north principally: New York, Philadelphia, and Baltimore. see many of these boats are ordered especially for the cargo they are to carry and they come down light, and this is expensive. If they could come down a cargo and be sure of a return cargo it would make the freight charges much I think it is but a matter of time, now that the Cape Fear River is being made er, that we will have a much larger commerce than we ever had. Years ago were times when we had as many as 40 sailing vessels here waiting to load, but have changed since then in many respects. Then the charter party called for t 50 tons a day loading; now three to four hundred tons a day are called for; of course, now the loading is done on steamboats. This is a saving in time and is an important element to consider these days. I believe the Northeast River, its available banks on both sides of the river, gives the only good location in section for the development or establishment of industries. The location is for the use of such plants as can be established there; all that is needed is good to get to them.

NEWCOMER. We shall be glad to hear from anyone else who desires to speak. H. McC. Stanford. I don't see that I can enlarge in any way on anything has been said, but I wish to call attention to one detail which I think has been ed. The port of Wilmington is getting a black eye for delays which are occahere by the factories having to lighter a half of their raw materials. The sare delayed here on account of this lighterage, also sometimes for several in waiting for the tide and to be able to get through the bridge. These facts ell known to the shipping interests, and as a result it is impossible to get as favorcharters as you could otherwise, and it hurts us in competition with other ports e vessels can tie to the wharves where their cargoes are to be unloaded. I will however, that as a representative of one of the interests here I want to add my

cement to what has been said by the gentlemen in our interest.

TAYLOR. How about dredging through this bridge? Is this bridge of such a ruction that the proper depth could be had by dredging through it? I have that dredging through this bridge might tend to seriously injure it.

PAYNE. I will state that I think it entirely practicable to get deeper water cgh the bridge. In fact, I am informed that the railroad will make any improve-

in the bridge which is considered necessary to meet the conditions.

TAYLOR. Can you tell me to what depth the piers of this bridge extend?
DEVINE. I think I can answer that question. I am not absolutely positive, but pression is—in fact, I know—that a cylinder was sunk and that is filled with conand it is reasonable to suppose that it was carried to rock; at any rate, carried vas far as they would be justified to carry it for safety. The data as to this can be in the Coast Line office. I am sure this can be supplied if you desire it; but cords are filed here in the railroad office—they probably are some 25 or 30 years

TAYLOR. The center pier is now, I believe, in water about 16 feet deep?
DEVINE. That depth at least, if not more.
TAYLOR. What form of construction have the other piers?
DEVINE. All cylinder, I believe.

TAYLOR. You are unable to state how far down they go?

Mr. Devine. No; I can not, except that I understand they went down to a point that was considered to be safe. I can't state the depth they are sunk; but it must have been to rock, or to such a depth as was considered proper and safe. I would like to ach a few remarks to what has been said. I don't know that I can add very much strengthen the arguments that have been made, but I would like to make the suggestion that if you feel that this work can not be done at the entire expense of the Governme I offer the suggestion—I don't know whether there is anything in it or not—could not harbor line here be extended to 3 miles above and in that way come in for some part of the appropriation for the improvement of the Cape Fear River? If not share in the present appropriation for the Cape Fear River, then in some future appropriation If we could not participate in the present appropriation, it might be covered in future appropriations.

Col. Taylor. I will state that the project for the Cape Fear River as enacted Congress extends to certain points or limits; that is, entirely independent of he far the harbor line may extend. The only way this could be accomplished would by a specific act by Congress. Nothing could be done in the absence of author from Congress covering this matter proposed by you. It would not be within a province of this board to recommend an extension of the harbor line. They he

nothing to do with that subject.

Col. Taylor. Any other gentlemen desire to be heard?
Mr. E. T. Taylor. I wish to indorse what has been said here to-day.

Col. Taylor. Any other gentleman wish to make any remarks on this occasion? Mr. C. R. Stevenson. Gentlemen, as a representative of one of the interests the other side of the bridge, I would like to add my indorsement to what these g tlemen have said. The difficulty the lumber interests have to meet is that they he been practically shut out from shipping by vessels because of the very high ra Vessels come down here and have nothing to bring down as a cargo, and consequer their rates are higher than if they had a cargo to carry both ways. We therefore he to charter vessels which come down here light, and I will say that at present the rates are in some instances in excess of railroad rates because of that fact.

Col. Newcomer. Where do your shipments go?

Mr. Stevenson. To the eastern ports—New York, Philadelphia, Baltimore, from these points distributed through the eastern markets. We distribute neall of our product through the markets of the East.

A VOICE (name of speaker not given). I would like to add our indorsement to w

the gentleman has just said. Col. Newcomer. Any other gentleman like to say anything? Mr. J. S. Williams.—I desire to say I am very much interested in the deeper of this river, and have been for the last five or six years. I had the pleasure of b before you gentlemen in Washington, with Mr. Bates and Senator Simmons, and then heard our arguments as to the needs of this improvement and as to who woul the principal beneficiaries under it. The same conditions are before us to-What benefits one benefits the rest up there; but aside from the direct benefit accr to these plants by the deepening of this stream, it would mean great benefits to ot in that it would mean that we alone would handle about 24 sailing vessels or sh year, bring by water rock which is now brought by rail. By this method consider money would be distributed here in Wilmington, and employment furnished to a siderable number of men. We now distribute a good deal of money in this diswe erected our fertilizer plant here realizing the benefits to be derived from location; but we can not realize those benefits so long as we are compelled to ligh portion of our materials. Now, to illustrate, Tuesday there is due here the ste This boat has a cargo of about 3,700 tons for Savannah Haltye from Savannah. 3,800 tons for Wilmington. This ship goes first to Savannah or to Charleston as either of these points docks direct at the phosphate factory. Here, if she came a part of the cargo for us would have to be lightered. Now the Wilmington p this cargo would have to be lightered or transferred at the railroad terminals he Wilmington, which makes the cost here 35 cents more than at either Charlest Savannah. The result or this state of affairs is that we have 35 cents a ton more ch

either of these points docks direct at the phosphate factory. Here, if she came a part of the cargo for us would have to be lightered. Now the Wilmington pathis cargo would have to be lightered or transferred at the railroad terminals he Wilmington, which makes the cost here 35 cents more than at either Charlest Savannah. The result or this state of affairs is that we have 35 cents a ton more charged in Wilmington than our competitors in Charleston or Savannah have to pay in Wilmington than our competitors in Charleston or Savannah have to I am now speaking of canite and the salts used in the manufacture of phospil The same thing is true as to nitrates; the nitrate rate is practically the same in all places—Charleston, Savannah, and Wilmington, but in Wilmington here it costs cents more on account of the literage. In many cases the sales are made directors more on account of the literage. In many cases the sales are made directors, who are purchasing in that way more than formerly, and who buy goods to a considerable extent in preference to the mixed or manufactured and you can see that our competitors have an advantage of 35 cents a ton over us. At matter, the deepening of this river would make available many factory sites are not now occupied, and there is no doubt but that new factories would be

ed there if the river was deepened; but as it is at present, it is not considered

antageous to go in there and put up a plant unless some assurance can be given deeper water will be furnished. If we had this improvement I think within years you would see industries springing up along both banks of this river. Id locate there because of the facilities of navigation afforded them—that they d be on navigable water-water with a sufficient depth to bring goods to them, enable them to ship out their manufactured products. Navigation is absolutely led up there, and I think there is no question but what the improvement should be e at the expense of the Government. Aside from removing a few snags above the ge, I don't think much has ever been expended above the bridge. Now, we had cate up there. We couldn't locate below on account of the fumes from the sulphur ch it is necessary we should use in our manufacture of the phosphate. roy vegetation, and it would simply be a matter of continued litigation. e has been some litigation about all the time now, and in some of the cases we have We could not locate in the city of Wilmington because there is an ordinance ch prohibits phosphate factories from locating within the corporate limits; that is, sphate plants which burn sulphur. There are two plants in Wilmington, but her of them acid burning plants. They simply mix the raw material. Of course, come in competition with us. One of these plants belongs to Armour & Co.there in the city—in which they use up their refuse material, and this plant comes irect competition with us. Most of the large meat dealers in the country like t and Armour, now have their own plants. Our plants, because they burn sulcan not locate below the bridge, but yet we are placed in direct competition the plants in Wilmington which I have mentioned. If we attempted to locate w the city the fumes of the sulphur would be blown right over the city by the preng winds, and that stops us from locating there.

1. Langfitt. Couldn't you locate below the city, say, a distance of half a mile to

P-quarters of a mile, and then have good facilities for shipment?

STANFORD. No; I think we would lay ourselves liable for any damages caused be wind carrying the fumes. In fact, I will say that we have been sued right along rae past 8 or 10 years for injury on account of these fumes, and I will say we have everal of these suits, and we probably will be sued as long as we are in business on account. [Laughter.] We have also won some of these suits, but it keeps us, ed as we are up there, involved in litigation over these fumes. You can imagine it would be if we were below the city with the prevailing winds blowing the res right over the city. I will state that this nitrate business is controlled by a pan concern—the "Geenem Caele," I believe, is the title. They control the busi-We contract for a certain number of tons for the year, and we have absolutely entrol over the size of the ships; and when a ship arrives at Wilmington drawing 22 feet of water they can not get up to our factory, and the result is we have to ler the goods at an additional expense, and this expense amounts to a considerable case in the cost of production of the manufactured product. In some instances it een necessary to have the ship go first to Savannah or Charleston and discharge the rof her cargo to the factories there, and then come on up to Wilmington. in here first, there would not be enough water for her to come up to our factory, the result would be a considerable expense to us for lighterage. If we had the tr to our factories up there, this element of lighterage would be eliminated, and we

(l. Langfitt. Any other gentleman like to say anything? We shall be very glad,

d then be placed on an equal footing with our competitors and could meet their

ded, to hear from any of you.

M. L. E. HALL. Gentlemen, in the absence of Mr. Corbett, the president of the ilington Chamber of Commerce, it becomes my pleasant duty to thank this comthe for coming down here and looking into this matter. The commercial organizaof this city—the Wilmington Chamber of Commerce—heartily indorses the propoit, feeling, after mature deliberation, that it is for the direct benefit of the port of llington. We recognize, of course, that the private interests materially affected lreap the direct benefit from the deepening of this channel, although, as Mr. or has pointed out, the territory adjacent to the city of Wilmington will ultimately the benefit from this improvement; and we, as a commercial organization, sinry hope that the Government will see fit to do this work, and thus materially case the commerce of this port, which, I think, it has been clearly shown this povement would do. As vice president of the chamber of commerce, I wish to thank you for this hearing which you have given us.

. Langfitt. I desire to ask as to the draft of boats used for carrying this phosphate Now, if they could bring in 1,200 to 1,800 tons, I should say that in that case the

swould be reduced. The boat could seek a cargo from port to port.

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Mr. WILLIAMS. The bill of lading is usually from New York, and, as you say, the boats do seek a cargo from one port to another; but the trouble is that it takes a ticular or specially built vessel for this trade on account of the liability of shifting this cargo. It takes a vessel of considerable depth to handle it, and it is only a cer class of sailing vessels that carry this phosphate rock.

Colonel TAYLOR. Then you are more interested in this matter because of the of vessels coming from abroad bearing the raw material, than in the coastwise bo

Mr. Williams. The increase in shipping from the coastwise vessels carrying phosphate rock on one hand, and the size of the boats used by the Germans in carry the raw material. I spoke of one vessel which had to go down to Savannah to

charge part of her cargo there.

Mr. TAYLOR. I think I can make that point plain. The lighterage here amount practically an extra cost of 35 cents per ton on this material. At Savannah an Charleston these vessels can dock right at the phosphate factories, and this amount saved; so it amounts practically to a royalty or excess of 35 cents per ton that has t paid here in Wilmington, and as a result the Wilmington manufacturer has to rec his cost by that much to meet the competition from Savannah and Charleston. ton and Savannah, in other words, under the present conditions have the advant other things being equal, of just that amount over Wilmington, in not having to

Mr. WILLIAMS. That is the matter from a competitive standpoint—Charleston ha

advantage of us by just that amount.

Colonel TAYLOR. You have equal freight rates on the boats bringing the raw n

rial?

Mr. PAYNE. Yes, we are on equal terms so far as the freight rates are concerne bringing the goods in; but we have to pay this extra amount which Charleston doe have to pay, for the reason that the vessels can tie up to the wharves of the fac Now, a short while ago there was a contract amounting to about \$8,000—n We tried to get it, but Charleston took the business. factured goods. 25 cents, and got the contract.

Colonel TAYLOR. You did not get the contract? Mr. PAYNE. No, sir; Charleston took the business.

Colonel TAYLOR. Where does most of your manufactured products go?

Mr. PAYNE. To the interior of North and South Carolina.

Colonel TAYLOR. So if the channel were deepened there would be but very outgoing business—nearly all incoming? Mr. PAYNE. All incoming—vessels bringing supplies here for the factories.

Colonel Newcomer. How is that as to the lumber company?

Mr. PAYNE. The sailing vessels in the lumber business can carry ties, lumber goods of that character, provided they can find a cargo. Col. Newcomer. I wish to ask if any of these plants here have other factories

those here—Charleston or Savannah?

Mr. PAYNE. We have one at Savannah.

Col. Newcomer. That was not the plant that took the contract away from ye Mr. PAYNE. No, sir; that was not the plant. [Laughter.] Of course, I am page larly interested in the plant here, and we are not afraid of competition, and we that competition will surely come no matter whether the river is deepened c but you can readily see that we would be in a better position to meet compo with water to our wharves than we are at present. We, of course, realize the improvement to this stream will be of benefit to our property and business. But it is a benefit to this entire section as well as to us.

Col. Newcomer. I will ask is it not possible that the city or other local organi will help out with this matter by way of contribution. That is done to a very extent throughout the country, money appropriated by Congress being contupon local cooperation to a certain specified amount or proportion by a city of

organization formed for the purpose. Could not that be done here? Mr. PAYNE. We have never asked the city. In the first place, Wilmington is road terminal. They are bringing cotton here and exporting cotton, and the r terminal facilities are all on deep water, and of course I suppose the railroad wor want us to have deep water; it would take freight away from them; and there have never asked the city to help in the matter.

Col. Newcomer. Would anything beyond local transportation be affected?

Mr. PAYNE. Yes; such rock as they now haul from Florida for us.

Col. Newcomer. I don't understand the difficulty you would have with

carrying, say, about 1.800 tons of cargo. Mr. PAYNE. I will state that our vessels average between 18 and 20 feet, and is nearly always necessary to take out half of the cargo before they can get up t. That is just the difficulty we wish to avoid—this matter of lightering the cargo. r. TAYLOR. I think it has not been the policy of the Government to require anyg of local private interests, except perhaps in the matter of terminals and transfer ities; but I fail to see that this matter has any bearing upon the question of termiat all. It seems to me that it is simply a matter of dredging this riverol. TAYLOR. I will state that the requirements of the Government in local mataffecting commerce are not limited to terminals by any means, and that in a

e number of instances money has been contributed by different localities. numerous instances. At Portland, Oreg., there is a corporation known as the rt of Portland," with power to levy taxes to a certain extent, even outside the limits ne city of Portland, and they have contributed a very large part of the expenses of rovement of the Columbia River, and only recently they have contributed \$500,000 ard the construction of jetties at the mouth of the river, 110 miles away.

r. Taylor. The appropriation of money for improvements outside of the limits

re city could not be made—there is no power in the city to do this.

ol. Taylor. That could easily be fixed. Get a State law passed, if you are inter-

d in it. Quite a number of States have done that.

r. J. A. TAYLOR. I would like to offer a resolution, with your kind permission,

ch I will read and leave with your committee. (Reads:)
The Wilmington Chamber of Commerce has repeatedly indorsed the project for improvement of the North East River from Hilton Bridge to a distance of miles, covering sites now occupied by various manufacturing industries, opening the possibility of an extensive field for the development of like rests, and expressed the opinion that the project is essentially of a public characteristic of the development of like rests, and expressed the opinion that the project is essentially of a public characteristic of the development of like rests, and expressed the opinion that the project is essentially of a public characteristic or the development of like rests, and expressed the opinion that the project is essentially of a public characteristic or the development of like rests, and expressed the opinion that the project is essentially of a public characteristic or the development of like rests, and expressed the opinion that the project is essentially of a public characteristic or the development of like rests, and expressed the opinion that the project is essentially of a public characteristic or the development of like rests, and expressed the opinion that the project is essentially of a public characteristic or the development of like rests. r and should be prosecuted entirely at the expense of the General Government. welcome to Wilmington the representatives of the board of engineers, who have ed the further presentation of this matter, and with entire confidence in our cause canticipate a favorable decision by the board, committing the Government to a poly prosecution of the project." (Exhibit C.)

r. L. E. Hall. Gentlemen, the Wilmington Chamber of Commerce has passed an a resolution several times, and we feel quite sure that it will be passed again. tlemen of the Wilmington Chamber of Commerce, you have heard the resolution Ich has just been read; those in favor of adopting it as the resolution of the Wilgton Chamber of Commerce manifest it by saying "aye." (Unanimous.) Those

rosed ''no.'' (No response.) I pronounce it carried.

ol. TAYLOR. Anyone else who wishes to say anything? If not, I will call the nating closed. Closed.)

EXHIBIT A.

MEMORANDUM.

here are located on the Northeast River, within a distance of 1½ miles north of Iton Bridge, the following industries: American Agricultural Chemical Co.; Virginia-

olina Chemical Co.; Swift's Fertilizer Co.; Camp Lumber Co. hese properties are capitalized at one and one-half million dollars; have an annual

roll of \$355,000; turn out manufactured product annually of 150,000 tons; reship enterior factories crude material to amount to 20,000 tons.

resent depth of water, 16 feet, high tide; proposed depth of water, 22 feet, low tide;

c of improvement, \$52,000. resent depth of water involves lightering annually 35,000 tons of material, at a cost 19,000. Phosphate rock from Florida moved by rail, 37,000 tons, at an excess cost

Fr water transportation of \$10,000. stimated increase of water-borne tonnage in raw material of 50,000 tons, with a

oth of 22 feet of water.

eneral Government has improved Ashley River 4 miles for the accommodation of eilizer factories without any contribution of expense from private interests. ocation of fertilizer factories north of Hilton Bridge made necessary by city ordi-

nice.

Ехнівіт В.

PETITION OF INTERESTED PARTIES.

WILMINGTON, N. C., October 17, 1913.

INTLEMEN: We, the petitioners most directly interested in the desired improve-ant of the deepening of the Northeast Channel of the Cape Fear River for a distance a) roximately 1½ miles above the Hilton Bridge, greatly appreciate the interest

that your honorable board has shown in this desired improvement, and we also fee that from the great interest shown at the hearing before your committee at Wi mington to-day by the business interests in general of the city of Wilmington wi convince you that this improvement will not only benefit us but be a great benef to the entire business interests of Wilmington and a large portion of the State of Nort Carolina.

We note from Document No. 1356 of the third session of the Sixty-third Congrethat this improvement is recommended by Gen. W. H. Bixby, Chief of Enginee United States Army, and Col. William T. Rossell, Corps of Engineers, senior member of the board, with the proviso that the manufacturers located on the Northeast Car Fear River bear one-half of the expense.

Now, as it is the consensus of opinion that this improvement should be made, it our purpose to endeavor to show to your honorable board that this improvement shoul be made and maintained by the Government as well as any other harbor improvement that is made to encourage manufacturing and to give the community at large the benefit

of transportation derived from a natural waterway.

In our petition to your honorable board of May 8, 1912, we submitted to you figur showing tonnage that we would transport to our several factories provided we had sufficient depth of water to bring vessels direct to the several factories, and we al stated the amount of money that we were paying out in wages and salaries. Since the petition was made all of the several companies have had heavier demands upon the for their products, and one company, the American Agricultural Chemical Co., has completed their plant, and their present requirements in incoming cargoes, as we as the amount of wages and salaries, have largely increased.

These industries were located through a large expenditure of money and they a now helpless as far as receiving their incoming cargoes in competition with oth

ports

Under dates of August 7 and 8, 1913, we submitted to Maj. H. W. Stickle, Unit States Army, port of Wilmington, a statement of tonnage which we were compelled to lighter from vessels from Wilmington Harbor to our works, which showed a tot tonnage of 34,067 tons, which does not include 37,306 tons of phosphate rock whi we were compelled to bring to Wilmington by rail for want of sufficient depth of wat on the Northeast Cape Fear River.

It is a fact that the manufacturing interests above Wilmington will be direct benefited by this improvement, but it is also a fact that the location of these factors

tories is the only location that they could secure, for two reasons:

First. Owing to the nature of their business, they are not allowed to locate with the city limits.

Second. Owing to the lack of railroad facilities, they were unable to locate sou

of the city, where deep water can be secured.

For these reasons, if Wilmington is to become a larger fertilizer center it will necessary that a channel of sufficient depth to allow foreign vessels, the size of who we can not regulate or control, to bring their cargoes direct to the factories, be hand the territory above Hilton Bridge is the only available and logical location these new industries. We can, if necessary, show to you gentlemen that the port Wilmington is now suffering for the lack of vessels to take cargoes from this port account of the unreasonable rate charged by vessels to come here empty for outbout cargoes.

Again we beg to call your honorable board's attention to the fact that the poist that are the largest competitors of Wilmington in the manufacturing of fertilizes, namely, Norfolk, Charleston, and Savannah, all have locations suitable for the manufacturing of fertilizer on deep water, and it is a recognized fact that a communy owes to a large extent its prosperity and future greatness to its manufacturing

industries.

If we are permitted to bring our phosphate rock to Wilmington by water, it mean from 20 to 30 additional vessels coming to this port every year, and these vess will secure an outgoing eargo which will enable the shippers to secure more favoral freight rates, and place them in a position where they can count on these vessels handle their products, while at present it is a question with them, at all times, who to locate a vessel to come to Wilmington empty for a cargo at a rate which enable them to compete with other ports.

We feel confident that your honorable board, now having had your representative to go over this desired improvement, visit our factories, seeing the large amount money that we have expended, that they will recognize the necessity of this impresent and the benefit that will be derived by the entire community, and we test

t, after considering these facts, you will conclude that the entire expense of improvement should be borne by the Government, and will so recommend to honor, the Secretary of War. We are,

Very respectfully,

AMERICAN AGRICULTURAL CHEMICAL CO.,

By R. T. PAYNE.

VIRGINIA-CAROLINA CHEMICAL CO.,

By E. T. TAYLOR, Manager. SWIFT FERTILIZER WORKS,

By H. McC. Stanford, Superintendent. Camp Manufacturing Co.,

By JNO. R. STEPHENSON, Superintendent.

o the Board of Engineers for Rivers and Harbors.

EXHIBIT C.

he Wilmington Chamber of Commerce has repeatedly indersed the project for the rovement of the Northeast River from Hilton Bridge to a distance of 1½ miles, ring sites now occupied by various manufacturing industries and opening the ibility of an extensive field for the development of like interests, and expressed opinion that the project is essentially of a public character and should be prosedentially at the expense of the General Government.

e welcome to Wilmington representatives of the Board of Engineers, who have d the further presentation of this matter, and with entire confidence in our cause inticipate a favorable decision by the board committing the Government to a

dy prosecution of the project.





